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Compsn. contg. salt of basic peptide and carboxy-terminated polyester - providing controlled, sustained release of active ingredient, formulated as soln., dispersion, microparticles or implant
Patent Assignee: ASTRAZENECA AB; ZENECA LTD; HUTCHINSON F G; ASTRAZENECA UK LTD

Inventors: HUTCHINSON F; HUTCHINSON F G

Patent Family (46 patents, 43 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 1993024150	A1	19931209	WO 1993GB1079	A	19930525	199350	B
FR 2691631	A1	19931203	FR 19936432	A	19930528	199401	E
AU 199340847	A	19931230	AU 199340847	A	19930525	199415	E
BE 1006143	A3	19940524	BE 1993551	A	19930528	199425	E
TW 223018	A	19940501	TW 1993104017	A	19930521	199435	E
ZA 199303358	A	19941130	ZA 19933358	A	19930513	199502	E
SE 199404115	A	19941128	WO 1993GB1079	A	19930525	199510	E
			SE 19944115	A	19941128		
DK 199401353	A	19941128	WO 1993GB1079	A	19930525	199512	E
			DK 19941353	A	19941128		
NO 199404535	A	19950125	WO 1993GB1079	A	19930525	199513	E
			NO 19944535	A	19941125		
FI 199405553	A	19950125	WO 1993GB1079	A	19930525	199516	E
			FI 19945553	A	19941125		
GB 2282066	A	19950329	WO 1993GB1079	A	19930525	199516	E
			GB 199423366	A	19941118		
NL 199320034	A	19950403	NL 199320034	A	19930525	199518	E
			WO 1993GB1079	A	19930525		
LU 88559	A	19950405	WO 1993GB1079	A	19930525	199519	E
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SE 501970	B	19950703	WO 1993GB1079	A	19930525	199532	E
			SE 19944115	A	19941128		
SK 199401434	A3	19950711	WO 1993GB1079	A	19930525	199537	E
			SK 19941434	A	19930525		
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			US 1995473303	A	19950607		
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			SK 19941434	A	19930525		
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			US 1995473303	A	19950607		
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			RU 199446097	A	19930525		
IL 105710	A	20010319	IL 105710	A	19930516	200129	E
AT 407702	B	20010415	AT 19939019	A	19930525	200130	E
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			NO 19944535	A	19941125		
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			US 1998161707	A	19980929		
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CZ 292449	B6	20030917	WO 1993GB1079	A	19930525	200364	E
			CZ 19942937	A	19930525		
NL 195056	C	20030701	NL 199320034	A	19930525	200366	E
FI 112603	B1	20031231	WO 1993GB1079	A	19930525	200404	E
			FI 19945553	A	19941125		
DK 176134	B	20060918	WO 1993GB1079	A	19930525	200663	E
			DK 19941353	A	19941128		
CA 2136751	C	20061031	CA 2136751	A	19930525	200674	E
			WO 1993GB1079	A	19930525		
DE 4392401	B4	20070516	DE 4392401	A	19930525	200734	E
			WO 1993GB1079	A	19930525		

Priority Application Number (Number Kind Date): GB 199211268 A 19920528; US 1999235270 A 19990122

Patent Details

Patent Number	Kind	Language	Pages	Drawings	Filing Notes
WO 1993024150	A1	EN	85	0	
National Designated States,Original	AT AU BB BG BR CA CH CZ DE DK ES FI GB HU JP KP KR LK LU MG MN MW NL NO NZ PL PT RO RU SD SE SK UA				
Regional Designated States,Original	OA				
FR 2691631	A1	FR	103	0	
AU 199340847	A	EN			Based on OPI patent WO 1993024150
BE 1006143	A3	FR	103	0	
TW 223018	A	ZH			
ZA 199303358	A	EN	83	0	
SE 199404115	A	SV			PCT Application WO 1993GB1079
DK 199401353	A	DA			PCT Application WO 1993GB1079

NO 199404535	A	NO			PCT Application WO 1993GB1079
FI 199405553	A	FI			PCT Application WO 1993GB1079
GB 2282066	A	EN	1	0	PCT Application WO 1993GB1079
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NL 199320034	A	NL			PCT Application WO 1993GB1079
					Based on OPI patent WO 1993024150
LU 88559	A	FR			PCT Application WO 1993GB1079
					Based on OPI patent WO 1993024150
SE 501970	B	SV			PCT Application WO 1993GB1079
SK 199401434	A3	SK			PCT Application WO 1993GB1079
HU 70177	T	HU			PCT Application WO 1993GB1079
					Based on OPI patent WO 1993024150
JP 8501064	W	JA	85	0	PCT Application

					WO 1993GB1079
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GB 2282066	B	EN			PCT Application WO 1993GB1079
					Based on OPI patent WO 1993024150
NZ 252268	A	EN			PCT Application WO 1993GB1079
					Based on OPI patent WO 1993024150
DE 4392401	T	DE	0		PCT Application WO 1993GB1079
					Based on OPI patent WO 1993024150
IE 74715	B	EN			
AU 682310	B	EN			Previously issued patent AU 9340847
					Based on OPI patent WO 1993024150
SG 44645	A1	EN			
CH 688911	A5	DE			PCT Application WO 1993GB1079
					Based on OPI patent WO 1993024150
US 5889110	A	EN			Division of application US 199365771
					PCT

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CH 690491	A5	DE
AT 199309019	A	DE
RU 2152225	C1	RU
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KR 293882	B	KO

Application WO 1993GB1079
Previously issued patent SK 9401434
Division of application US 199365771
Continuation of application US 1995473303
Continuation of patent US 5889110
PCT Application WO 1993GB1079
PCT Application WO 1993GB1079
Based on OPI patent WO 1993024150
PCT Application WO 1993GB1079
Previously issued patent AT 9309019
PCT Application WO 1993GB1079
Previously issued patent NO 9404535
PCT Application WO 1993GB1079

US 20020198315	A1	EN
CZ 292449	B6	CS
FI 112603	B1	FI
DK 176134	B	DA
CA 2136751	C	EN

Previously issued patent KR 95701530
Based on OPI patent WO 1993024150
Division of application US 199365771
Continuation of application US 1995473303
Continuation of application US 1998161707
Continuation of patent US 5889110
PCT Application WO 1993GB1079
Previously issued patent CZ 9402937
Based on OPI patent WO 1993024150
PCT Application WO 1993GB1079
Previously issued patent FI 9405553
PCT Application WO 1993GB1079
Previously issued patent DK 9401353
PCT Application WO 1993GB1079

			Based on OPI patent WO 1993024150
DE 4392401	B4	DE	PCT Application WO 1993GB1079
			Based on OPI patent WO 1993024150

Alerting Abstract: WO A1

Compsn. contains (as made) a salt (A) contg. a cation derived from a peptide (I) having at least one basic gp., and an anion derived from a carboxy-terminated polyester (II). The comps. is a soln. or dispersion of (A) in a solvent which also dissolves free (II) but not free (I), and in a dispersion the particle size of (A) is below 5 (esp. below 0.2) microns. Alternatively the comps. exists as microparticles or an implant for injection or subdermal implantation.

Pref. (II) is derived from hydroxyacids or is prepd. by polycondensation of diols and/or polyols with dicarboxylic and/or polycarboxylic acids.

USE/ADVANTAGE - (A) provide extended release (over up to 2 years) of therapeutically active peptide, or where (I) is not itself active they are useful as excipients for sustained release of other, acidic or neutral, peptides. The comps. are soluble in lipophilic solvents (giving solns. which can be filtered sterile and dried under aseptic conditions) and by formulating with either free (II) or free (I) at least 3 different controlled drug release profiles (continuous; discontinuous or tinned/pulsed) can be achieved. Since (A) are amphipathic, they produce stable aq. dispersions.

Equivalent Alerting Abstract:

NL A

Compsn. contains (as made) a salt (A) contg. a cation derived from a peptide (I) having at least one basic gp., and an anion derived from a carboxy-terminated polyester (II). The comps. is a soln. or dispersion of (A) in a solvent which also dissolves free (II) but not free (I), and in a dispersion the particle size of (A) is below 5 (esp. below 0.2) microns. Alternatively the comps. exists as microparticles or an implant for injection or subdermal implantation.

Pref. (II) is derived from hydroxyacids or is prepd. by polycondensation of diols and/or polyols with dicarboxylic and/or polycarboxylic acids.

USE/ADVANTAGE - (A) provide extended release (over up to 2 years) of therapeutically active peptide, or where (I) is not itself active they are useful as excipients for sustained release of other, acidic or neutral, peptides. The comps. are soluble in lipophilic solvents (giving solns. which can be filtered sterile and dried under aseptic conditions) and by formulating with either free (II) or free (I) at least 3 different controlled drug release profiles (continuous; discontinuous or tinned/pulsed) can be achieved. Since (A) are amphipathic, they produce stable aq. dispersions.

International Classification (Main): A61K-037/02, A61K-038/00, A61K-047/48, C07K-001/08

(Additional/Secondary): A61K-037/02, A61K-037/24, C08G-063/06

International Patent Classification

IPC	Level	Value	Position	Status	Version
A61K-0038/00	A	I	L	B	20060101
A61K-0038/00	A	I	L	R	20060101
A61K-0038/04	A	I	L	R	20060101
A61K-0038/09	A	I	L	B	20060101
A61K-0038/11	A	I	L	R	20060101
A61K-0038/17	A	I	L	R	20060101
A61K-0038/21	A	I	L	R	20060101
A61K-0038/22	A	I	L	R	20060101
A61K-0038/23	A	I	L	R	20060101
A61K-0038/24	A	I	L	R	20060101
A61K-0038/26	A	I	L	R	20060101
A61K-0038/28	A	I	L	R	20060101
A61K-0038/35	A	I	L	R	20060101
A61K-0038/43	A	I	L	R	20060101
A61K-0038/46	A	I	L	R	20060101
A61K-0038/48	A	I	L	R	20060101
A61K-0047/34	A	I	L	B	20060101
A61K-0047/48	A	I	F	B	20060101
A61K-0047/48	A	I		R	20060101
A61K-0009/00	A	N	L	R	20060101
A61K-0009/00	A	N		R	20060101
A61K-0009/107	A	I	F	R	20060101
A61K-0009/16	A	I	L	B	20060101
A61K-0009/16	A	I	L	R	20060101
A61K-0009/20	A	I	L	B	20060101
A61K-0009/22	A	I		R	20060101
A61K-0009/52	A	I		R	20060101
A61K-0038/00	C	I	L	B	20060101
A61K-0038/00	C	I	L	R	20060101
A61K-0038/04	C	I	L	R	20060101
A61K-0038/08	C	I	L	B	20060101
A61K-0038/10	C	I	L	R	20060101
A61K-0038/17	C	I	L	R	20060101

A61K-0038/21	C	I	L	R	20060101
A61K-0038/22	C	I	L	R	20060101
A61K-0038/23	C	I	L	R	20060101
A61K-0038/24	C	I	L	R	20060101
A61K-0038/26	C	I	L	R	20060101
A61K-0038/28	C	I	L	R	20060101
A61K-0038/33	C	I	L	R	20060101
A61K-0038/43	C	I	L	R	20060101
A61K-0047/34	C	I	L	B	20060101
A61K-0047/48	C	I	F	B	20060101
A61K-0047/48	C	I		R	20060101
A61K-0009/00	C	N	L	R	20060101
A61K-0009/00	C	N		R	20060101
A61K-0009/107	C	I	F	R	20060101
A61K-0009/16	C	I	L	B	20060101
A61K-0009/16	C	I	L	R	20060101
A61K-0009/20	C	I	L	B	20060101
A61K-0009/22	C	I		R	20061008
A61K-0009/52	C	I		R	20060101

US Classification, Issued: 524832000, 514002000, 514772300, 514772600, 514800000, 514806000, 514807000, 514808000, 514809000, 514963000, 424489000, 424492000, 424499000, 435180000, 435181000, 435182000, 428402240, 525054100, 514002000, 514772300, 514772600, 514800000, 514806000, 514807000, 514808000, 514809000, 514963000, 424489000, 424492000, 424499000, 435180000, 435181000, 435182000, 428402340, 525054100

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Austria

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Assignee: ZENECA LTD (ZENE)

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Priority: GB 199211268 A 19920528

Related Publication: AT 9309019 A (Previously issued patent)

Original IPC: A61K-38/00(A) A61K-9/16(B) A61K-47/12(B)

Current IPC: A61K-38/00(R,I,M,JP,20060101,20051220,A,L) A61K-38/00

(R,I,M,JP,20060101,20051220,C,L) A61K-38/04(R,I,M,JP,20061008,20051220,A,L) A61K-38/04

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(R,I,M,GB,20060101,20060521,C)|AT 199309019 A (Update 200060 E)

Publication Date: 20001015

Assignee: ZENECA LTD (ZENE)

Language: DE

Application: AT 19939019 A 19930525 (Local application) WO 1993GB1079 A 19930525 (PCT Application)

Priority: GB 199211268 A 19920528

Original IPC: A61K-38/00(A) A61K-9/16(B) A61K-47/12(B)

Current IPC: A61K-38/00(R,I,M,JP,20060101,20051220,A,L) A61K-38/00

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(R,I,M,GB,20060101,20060521,C)

Australia

Publication Number: AU 682310 B (Update 199747 E)

Publication Date: 19971002

Assignee: ZENECA LTD (ZENE)

Inventor: HUTCHINSON F G

Language: EN

Application: AU 199340847 A 19930525 (Local application)

Priority: GB 199211268 A 19920528

Related Publication: AU 9340847 A (Previously issued patent) WO 1993024150 A (Based on OPI patent)

Original IPC: A61K-47/48(A) A61K-9/16(B) A61K-9/20(B) A61K-9/22(B)

Current IPC: A61K-38/00(R,I,M,JP,20060101,20051220,A,L) A61K-38/00

(R,I,M,JP,20060101,20051220,C,L) A61K-38/04(R,I,M,JP,20060101,20051220,A,L) A61K-38/04
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(R,I,M,GB,20060101,20060521,C)|AU 199340847 A (Update 199415 E)

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Application: AU 199340847 A 19930525 (Local application)

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Original IPC: A61K-47/48(A) A61K-9/16(B) A61K-9/20(B)

Current IPC: A61K-38/00(R,I,M,JP,20060101,20051220,A,L) A61K-38/00

(R,I,M,JP,20060101,20051220,C,L) A61K-38/04(R,I,M,JP,20060101,20051220,A,L) A61K-38/04
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(R,I,M,JP,20060101,20051220,C,L) A61K-38/22(R,I,M,JP,20060101,20051220,A,L) A61K-38/22
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(R,I,M,JP,20060101,20051220,C,L) A61K-38/46(R,I,M,JP,20060101,20051220,A,L) A61K-38/48
(R,I,M,JP,20060101,20051220,A,L) A61K-47/48(R,I,M,EP,20060101,20051008,A) A61K-47/48
(R,I,M,EP,20060101,20051008,C) A61K-9/00(R,N,M,EP,20060101,20051008,A) A61K-9/00
(R,N,M,EP,20060101,20051008,C) A61K-9/107(R,I,M,JP,20060101,20051220,A,F) A61K-9/107
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(R,I,M,JP,20060101,20051220,C,L) A61K-9/22(R,I,M,GB,20060101,20060521,A) A61K-9/22
(R,I,M,GB,20060101,20060521,C)

Belgium

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Assignee: ZENECA LTD (ZENE)

Language: FR (103 pages, 0 drawings)

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Original IPC: A61K(A)

Current IPC: A61K-38/00(R,I,M,JP,20060101,20051220,A,L) A61K-38/00

(R,I,M,JP,20060101,20051220,C,L) A61K-38/04(R,I,M,JP,20060101,20051220,A,L) A61K-38/04

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(R,I,M,JP,20060101,20051220,A,L) A61K-38/17(R,I,M,JP,20060101,20051220,A,L) A61K-38/17

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(R,I,M,JP,20060101,20051220,C,L) A61K-38/22(R,I,M,JP,20060101,20051220,A,L) A61K-38/22

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(R,I,M,JP,20060101,20051220,C,L) A61K-38/46(R,I,M,JP,20060101,20060101,A,L) A61K-38/48

(R,I,M,JP,20060101,20051220,A,L) A61K-47/48(R,I,M,EP,20060101,20051008,A) A61K-47/48

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(R,N,M,EP,20060101,20051008,C) A61K-9/107(R,I,M,JP,20060101,20051220,A,F) A61K-9/107

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(R,I,M,JP,20060101,20051220,C,L) A61K-9/22(R,I,M,GB,20060101,20060521,A) A61K-9/22

(R,I,M,GB,20060101,20060521,C)

Canada

Publication Number: CA 2136751 C (Update 200674 E)

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Assignee: ASTRAZENECA UK LTD (ASTR)

Inventor: HUTCHINSON F G

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Application: CA 2136751 A 19930525 (Local application) WO 1993GB1079 A 19930525 (PCT Application)

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Related Publication: WO 1993024150 A (Based on OPI patent)

Original IPC: A61K-38/00(I,CA,20060101,A,L) A61K-38/08(I,98,20060101,C,L) A61K-38/09

(I,CA,20060101,A,L) A61K-47/34(I,CA,20060101,A,L) A61K-47/48(I,CA,20060101,A,F) A61K-9/00

(N,CA,20060101,A,L) A61K-9/16(I,CA,20060101,A,L)

Current IPC: A61K-38/00(B,I,H,CA,20060101,19950101,A,L) A61K-38/00

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(B,I,H,CA,20060101,19950101,A,L) A61K-38/10(R,I,M,JP,20060101,20051220,C,L) A61K-38/11

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(R,I,M,JP,20060101,20051220,C,L) A61K-38/21(R,I,M,JP,20060101,20051220,A,L) A61K-38/21

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(R,I,M,JP,20060101,20051220,C,L) A61K-38/23(R,I,M,JP,20060101,20051220,A,L) A61K-38/23

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(R,I,M,JP,20060101,20051220,C,L) A61K-38/26(R,I,M,JP,20060101,20051220,A,L) A61K-38/26

(R,I,M,JP,20060101,20051220,C,L) A61K-38/28(R,I,M,JP,20060101,20051220,A,L) A61K-38/28

(R,I,M,JP,20060101,20051220,C,L) A61K-38/33(R,I,M,JP,20060101,20051220,C,L) A61K-38/35

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(R,I,M,JP,20060101,20051220,A,L) A61K-47/34(B,I,H,CA,20060101,19930525,A,L) A61K-47/34

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(B,I,H,CA,20060101,19930525,C,F) A61K-9/00(R,N,M,EP,20060101,20051008,A,L) A61K-9/00
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(R,I,M,JP,20060101,20051220,C,F) A61K-9/16(B,I,H,CA,20060101,19930525,A,L) A61K-9/16
(B,I,H,CA,20060101,19930525,C,L) A61K-9/22(R,I,M,GB,20060101,20060521,A) A61K-9/22
(R,I,M,GB,20060101,20060521,C)

Switzerland

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Assignee: ZENECA LTD (ZENE)

Inventor: HUTCHINSON F

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Application: WO 1993GB1079 A 19930525 (PCT Application) CH 1994311 A 19930525 (Local application)

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Related Publication: WO 1993024150 A (Based on OPI patent)

Original IPC: A61K-47/34(A) A61K-38/00(B) C08L-101/08(B)

Current IPC: A61K-38/00(R,I,M,JP,20060101,20051220,A,L) A61K-38/00

(R,I,M,JP,20060101,20051220,C,L) A61K-38/04(R,I,M,JP,20060101,20051220,A,L) A61K-38/04

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(R,I,M,GB,20060101,20060521,C)|CH 690491 A5 (Update 200050 E)

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Assignee: ZENECA LTD (ZENE)

Inventor: HUTCHINSON F G

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Original IPC: A61K-38/00(A) A61K-9/10(B) A61K-9/14(B) A61K-47/34(B)

Current IPC: A61K-38/00(R,I,M,JP,20060101,20051220,A,L) A61K-38/00

(R,I,M,JP,20060101,20051220,C,L) A61K-38/04(R,I,M,JP,20060101,20051220,A,L) A61K-38/04

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(R,I,M,JP,20060101,20051220,C,L) A61K-9/22(R,I,M,GB,20060101,20060521,A) A61K-9/22
(R,I,M,GB,20060101,20060521,C)

Czech Republic

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Publication Date: 20030917

Language: CS

Application: WO 1993GB1079 A 19930525 (PCT Application) CZ 19942937 A 19930525 (Local application)

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Related Publication: CZ 9402937 A (Previously issued patent) WO 1993024150 A (Based on OPI patent)

Original IPC: A61K-47/48(A) A61K-9/16(B) A61K-9/20(B)

Current IPC: A61K-38/00(R,I,M,JP,20060101,20051220,A,L) A61K-38/00

(R,I,M,JP,20060101,20051220,C,L) A61K-38/04(R,I,M,JP,20060101,20051220,A,L) A61K-38/04
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(R,I,M,JP,20060101,20051220,C,L) A61K-9/22(R,I,M,GB,20060101,20060521,A) A61K-9/22
(R,I,M,GB,20060101,20060521,C)|CZ 199402937 A3 (Update 199521 E)

Publication Date: 19950315

Language: CS

Application: CZ 19942937 A 19930525 (Local application)

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Original IPC: A61K-47/48(A) A61K-9/16(B) A61K-9/20(B)

Current IPC: A61K-38/00(R,I,M,JP,20060101,20051220,A,L) A61K-38/00

(R,I,M,JP,20060101,20051220,C,L) A61K-38/04(R,I,M,JP,20060101,20051220,A,L) A61K-38/04
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(R,I,M,JP,20060101,20051220,C,L) A61K-38/21(R,I,M,JP,20060101,20051220,A,L) A61K-38/21
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 (R,I,M,JP,20060101,20051220,A,L) A61K-38/43(R,I,M,JP,20060101,20051220,A,L) A61K-38/43
 (R,I,M,JP,20060101,20051220,C,L) A61K-38/46(R,I,M,JP,20060101,20051220,A,L) A61K-38/48
 (R,I,M,JP,20060101,20051220,A,L) A61K-47/48(R,I,M,EP,20060101,20051008,A) A61K-47/48
 (R,I,M,EP,20060101,20051008,C) A61K-9/00(R,N,M,EP,20060101,20051008,A) A61K-9/00
 (R,N,M,EP,20060101,20051008,C) A61K-9/107(R,I,M,JP,20060101,20051220,A,F) A61K-9/107
 (R,I,M,JP,20060101,20051220,C,F) A61K-9/16(R,I,M,JP,20060101,20051220,A,L) A61K-9/16
 (R,I,M,JP,20060101,20051220,C,L) A61K-9/22(R,I,M,GB,20060101,20060521,A) A61K-9/22
 (R,I,M,GB,20060101,20060521,C)

Germany

Publication Number: DE 4392401 B4 (Update 200734 E)

Publication Date: 20070516

****Verfahren zur Herstellung einer Losung oder Dispersion eines Peptid-Polyester-Salzes****

Assignee: AstraZeneca UK Ltd., London, GB (ASTR)

Inventor: Hutchinson, Francis Gowland, Lymm, Cheshire, GB

Agent: Andrae Flach Haug, 81541 Munchen

Language: DE

Application: DE 4392401 A 19930525 (Local application) WO 1993GB1079 A 19930525 (PCT Application)

Priority: GB 199211268 A 19920528

Related Publication: WO 1993024150 A (Based on OPI patent)

Original IPC: A61K-38/00(B,I,H,DE,20060101,20061206,A,F) A61K-38/00

(B,I,M,98,20060101,20061206,C) A61K-47/48(B,I,H,DE,20060101,20061206,A,L) A61K-47/48

(B,I,M,98,20060101,20061206,C) A61K-9/08(B,I,H,DE,20060101,20061206,A,L) A61K-9/08

(B,I,M,98,20060101,20061206,C) A61K-9/10(B,I,H,DE,20060101,20061206,A,L) A61K-9/10

(B,I,M,98,20060101,20061206,C)

Current IPC: A61K-38/00(B,I,H,DE,20060101,20061206,A,F) A61K-38/00

(B,I,M,98,20060101,20061206,C) A61K-47/48(B,I,H,DE,20060101,20061206,A,L) A61K-47/48

(B,I,M,98,20060101,20061206,C) A61K-9/08(B,I,H,DE,20060101,20061206,A,L) A61K-9/08

(B,I,M,98,20060101,20061206,C) A61K-9/10(B,I,H,DE,20060101,20061206,A,L) A61K-9/10

(B,I,M,98,20060101,20061206,C)

Original Abstract: Verfahren zur Herstellung einer Losung oder Dispersion eines Salzes, das aus einem Kation, das sich von einem Peptid mit wenigstens einer basischen Gruppe ableitet, und einem Anion, das sich von einem Polyester mit einer terminalen Carboxyl-Gruppe ableitet, gebildet ist, wobei die Losung oder Dispersion des Salzes in einem Losungsmittel vorliegt, das ein Losungsmittel fur den freien Polyester, jedoch kein Losungsmittel fur das freie Peptid darstellt, und wobei die Teilchengrosse des Salzes in der genannten Dispersion weniger als 5 µm betragt, das umfasst: (a) Auflösen des Peptids, das wenigstens eine basische Aminosäure enthält, in Form der freien Base oder in Form eines Salzes mit einer schwachen Säure sowie des Polyesters mit der terminalen Carbonsäure-Gruppe in einem neutralen, polaren Losungsmittel, in dem beide löslich sind, Entfernen des Losungsmittels oder der Hauptmenge des Losungsmittels, und Zugeben der zurückbleibenden konzentrierten Lösung zu einem Überschuss eines Nichtlösungsmittels für das Peptid-Polyester-Salz, oder br/ (b)...

Claim: Verfahren zur Herstellung einer Losung oder Dispersion eines Salzes, das aus einem Kation, das sich von einem Peptid mit wenigstens einer basischen Gruppe ableitet, und einem Anion, das sich von

einem Polyester mit einer terminalen Carboxyl-Gruppe ableitet, gebildet ist, wobei die Losung oder Dispersion des Salzes in einem Lösungsmittel vorliegt, das ein Lösungsmittel für den freien Polyester, jedoch kein Lösungsmittel für das freie Peptid darstellt, und wobei die Teilchengröße des Salzes in der genannten Dispersion weniger als 5 µm beträgt, das umfasst: (a) Auflösen des Peptids, das wenigstens eine basische Aminosäure enthält, in Form der freien Base oder in Form eines Salzes mit einer schwachen Säure sowie des Polyesters mit der terminalen Carbonsäure-Gruppe in einem neutralen, polaren Lösungsmittel, in dem beide löslich sind, Entfernen des Lösungsmittels oder der Hauptmenge des Lösungsmittels, und Zugabe der zurückbleibenden konzentrierten Lösung zu einem Überschuss eines Nichtlösungsmittels für das Peptid-Polyester-Salz, oder (b) Auflösen des Peptids, das wenigstens eine basische Aminosäure enthält, in Form der freien Base oder in Form eines Salzes mit einer schwachen Säure, sowie des Polyesters mit der terminalen Carbonsäure-Gruppe in einem Lösungsmittel, in dem beide löslich sind und das durch Gefriertrocknen entfernt werden kann, Gefrieren der erhaltenen Lösung bei hoher Geschwindigkeit, Gefriertrocknen der erhaltenen gefrorenen Mischung, Dispergieren der erhaltenen Mischung in einem Lösungsmittel für die Polyester-Komponente sowie Sichlösenlassen der Mischung im Zuge der Bildung des Peptid-Polyester-Salzes, oder 1.(c) Umsetzen des Peptids, das wenigstens eine basische Aminosäure enthält, in Form eines Salzes mit einer starken Säure mit einem Polyester, bei dem ein Teil oder die Gesamtmenge des Polyesters in der Form eines Carbonsäure-Salzes mit einem geeignetem Alkalimetall oder Erdalkalimetall vorliegt. [DE 4392401 T (Update 199735 E)]

Publication Date: 19970724

Assignee: ZENECA LTD (ZENE)

Inventor: HUTCHINSON F G

Language: DE (0 drawings)

Application: DE 4392401 A 19930525 (Local application) WO 1993 GB1079 A 19930525 (PCT Application)

Priority: GB 199211268 A 19920528

Related Publication: WO 1993024150 A (Based on OPI patent)

Original IPC: A61K-38/17(A) A61K-9/16(B) A61K-9/20(B) A61K-47/48(B)

Current IPC: A61K-38/00(R,I,M,JP,20060101,20051220,A,L) A61K-38/00(R,I,M,JP,20060101,20051220,C,L) A61K-38/04(R,I,M,JP,20060101,20051220,A,L) A61K-38/04

(R,I,M,JP,20060101,20051220,C,L) A61K-38/10(R,I,M,JP,20060101,20051220,C,L) A61K-38/11(R,I,M,JP,20060101,20051220,A,L) A61K-38/17(R,I,M,JP,20060101,20051220,A,L) A61K-38/17(R,I,M,JP,20060101,20051220,C,L) A61K-38/21(R,I,M,JP,20060101,20051220,A,L) A61K-38/21(R,I,M,JP,20060101,20051220,C,L) A61K-38/22(R,I,M,JP,20060101,20051220,A,L) A61K-38/22(R,I,M,JP,20060101,20051220,C,L) A61K-38/23(R,I,M,JP,20060101,20051220,A,L) A61K-38/23(R,I,M,JP,20060101,20051220,C,L) A61K-38/24(R,I,M,JP,20060101,20051220,A,L) A61K-38/24(R,I,M,JP,20060101,20051220,C,L) A61K-38/26(R,I,M,JP,20060101,20051220,A,L) A61K-38/26(R,I,M,JP,20060101,20051220,C,L) A61K-38/28(R,I,M,JP,20060101,20051220,A,L) A61K-38/28(R,I,M,JP,20060101,20051220,C,L) A61K-38/33(R,I,M,JP,20060101,20051220,C,L) A61K-38/35(R,I,M,JP,20060101,20051220,A,L) A61K-38/43(R,I,M,JP,20060101,20051220,A,L) A61K-38/43(R,I,M,JP,20060101,20051220,C,L) A61K-38/46(R,I,M,JP,20060101,20051220,A,L) A61K-38/48(R,I,M,JP,20060101,20051220,A,L) A61K-47/48(R,I,M,EP,20060101,20051008,A) A61K-47/48(R,I,M,EP,20060101,20051008,C) A61K-9/00(R,N,M,EP,20060101,20051008,A) A61K-9/00(R,N,M,EP,20060101,20051008,C) A61K-9/107(R,I,M,JP,20060101,20051220,A,F) A61K-9/107(R,I,M,JP,20060101,20051220,C,F) A61K-9/16(R,I,M,JP,20060101,20051220,A,L) A61K-9/16(R,I,M,JP,20060101,20051220,C,L) A61K-9/22(R,I,M,GB,20060101,20060521,A) A61K-9/22(R,I,M,GB,20060101,20060521,C)

Denmark

Publication Number: DK 176134 B (Update 200663 E)

Publication Date: 20060918

Assignee: ASTRAZENECA AB (ASTR)

Inventor: HUTCHINSON F G

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Application: WO 1993GB1079 A 19930525 (PCT Application) DK 19941353 A 19941128 (Local application)

Priority: GB 199211268 A 19920528

Related Publication: DK 9401353 A (Previously issued patent)

Original IPC: A61K-47/48(I,DK,20060101,A,F) A61K-9/16(I,DK,20060101,A,L) A61K-9/20(I,DK,20060101,A,L)

Current IPC: A61K-38/00(R,I,M,JP,20060101,20051220,A,L) A61K-38/00

(R,I,M,JP,20060101,20051220,C,L) A61K-38/04(R,I,M,JP,20060101,20051220,A,L) A61K-38/04

(R,I,M,JP,20060101,20051220,C,L) A61K-38/10(R,I,M,JP,20060101,20051220,C,L) A61K-38/11

(R,I,M,JP,20060101,20051220,A,L) A61K-38/17(R,I,M,JP,20060101,20051220,A,L) A61K-38/17

(R,I,M,JP,20060101,20051220,C,L) A61K-38/21(R,I,M,JP,20060101,20051220,A,L) A61K-38/21

(R,I,M,JP,20060101,20051220,C,L) A61K-38/22(R,I,M,JP,20060101,20051220,A,L) A61K-38/22

(R,I,M,JP,20060101,20051220,C,L) A61K-38/23(R,I,M,JP,20060101,20051220,A,L) A61K-38/23

(R,I,M,JP,20060101,20051220,C,L) A61K-38/24(R,I,M,JP,20060101,20051220,A,L) A61K-38/24

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(R,I,M,JP,20060101,20051220,C,L) A61K-38/46(R,I,M,JP,20060101,20051220,A,L) A61K-38/48

(R,I,M,JP,20060101,20051220,A,L) A61K-47/48(B,I,H,DK,20060101,20060918,A,F) A61K-47/48

(B,I,H,DK,20060101,20060918,C,F) A61K-9/00(R,N,M,EP,20060101,20051008,A) A61K-9/00

(R,N,M,EP,20060101,20051008,C) A61K-9/107(R,I,M,JP,20060101,20051220,A,F) A61K-9/107

(R,I,M,JP,20060101,20051220,C,F) A61K-9/16(B,I,H,DK,20060101,20060918,A,L) A61K-9/16

(B,I,H,DK,20060101,20060918,C,L) A61K-9/20(B,I,H,DK,20060101,20060918,A,L) A61K-9/20

(B,I,H,DK,20060101,20060918,C,L) A61K-9/22(R,I,M,GB,20060101,20060521,A) A61K-9/22

(R,I,M,GB,20060101,20060521,C)|DK 199401353 A (Update 199512 E)

Publication Date: 19941128

Language: DA

Application: WO 1993GB1079 A 19930525 (PCT Application) DK 19941353 A 19941128 (Local application)

Priority: GB 199211268 A 19920528

Original IPC: A61K-47/48(A) A61K-9/16(B) A61K-9/20(B)

Current IPC: A61K-38/00(R,I,M,JP,20060101,20051220,A,L) A61K-38/00

(R,I,M,JP,20060101,20051220,C,L) A61K-38/04(R,I,M,JP,20060101,20051220,A,L) A61K-38/04

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(R,I,M,JP,20060101,20051220,A,L) A61K-47/48(R,I,M,EP,20060101,20051008,A) A61K-47/48

(R,I,M,EP,20060101,20051008,C) A61K-9/00(R,N,M,EP,20060101,20051008,A) A61K-9/00

(R,N,M,EP,20060101,20051008,C) A61K-9/107(R,I,M,JP,20060101,20051220,A,F) A61K-9/107

(R,I,M,JP,20060101,20051220,C,F) A61K-9/16(R,I,M,JP,20060101,20051220,A,L) A61K-9/16
(R,I,M,JP,20060101,20051220,C,L) A61K-9/22(R,I,M,GB,20060101,20060521,A) A61K-9/22
(R,I,M,GB,20060101,20060521,C)

Spain

Publication Number: ES 2107357 A1 (Update 199801 E)

Publication Date: 19971116

Assignee: ZENECA LTD (ZENE)

Language: ES

Application: ES 199450004 A 19930525 (Local application)

Priority: GB 199211268 A 19920528

Original IPC: A61K-47/48(A) A61K-9/16(B) A61K-9/20(B)

Current IPC: A61K-38/00(R,I,M,JP,20060101,20051220,A,L) A61K-38/00

(R,I,M,JP,20060101,20051220,C,L) A61K-38/04(R,I,M,JP,20060101,20051220,A,L) A61K-38/04

(R,I,M,JP,20060101,20051220,C,L) A61K-38/10(R,I,M,JP,20060101,20051220,C,L) A61K-38/11

(R,I,M,JP,20060101,20051220,A,L) A61K-38/17(R,I,M,JP,20060101,20051220,A,L) A61K-38/17

(R,I,M,JP,20060101,20051220,C,L) A61K-38/21(R,I,M,JP,20060101,20051220,A,L) A61K-38/21

(R,I,M,JP,20060101,20051220,C,L) A61K-38/22(R,I,M,JP,20060101,20051220,A,L) A61K-38/22

(R,I,M,JP,20060101,20051220,C,L) A61K-38/23(R,I,M,JP,20060101,20051220,A,L) A61K-38/23

(R,I,M,JP,20060101,20051220,C,L) A61K-38/24(R,I,M,JP,20060101,20051220,A,L) A61K-38/24

(R,I,M,JP,20060101,20051220,C,L) A61K-38/26(R,I,M,JP,20060101,20051220,A,L) A61K-38/26

(R,I,M,JP,20060101,20051220,C,L) A61K-38/28(R,I,M,JP,20060101,20051220,A,L) A61K-38/28

(R,I,M,JP,20060101,20051220,C,L) A61K-38/33(R,I,M,JP,20060101,20051220,C,L) A61K-38/35

(R,I,M,JP,20060101,20051220,A,L) A61K-38/43(R,I,M,JP,20060101,20051220,A,L) A61K-38/43

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(R,I,M,JP,20060101,20051220,A,L) A61K-47/48(R,I,M,EP,20060101,20051008,A) A61K-47/48

(R,I,M,EP,20060101,20051008,C) A61K-9/00(R,N,M,EP,20060101,20051008,A) A61K-9/00

(R,N,M,EP,20060101,20051008,C) A61K-9/107(R,I,M,JP,20060101,20051220,A,F) A61K-9/107

(R,I,M,JP,20060101,20051220,C,F) A61K-9/16(R,I,M,JP,20060101,20051220,A,L) A61K-9/16

(R,I,M,JP,20061220,20051220,C,L) A61K-9/22(R,I,M,GB,20060101,20051220,A) A61K-9/22

(R,I,M,GB,20060101,20060521,C)|ES 2107357 B1 (Update 199849 E)

Publication Date: 19981016

Assignee: ZENECA LTD (ZENE)

Language: ES

Application: ES 199450004 A 19930525 (Local application)

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Original IPC: A61K-47/48(A) A61K-9/16(B) A61K-9/20(B)

Current IPC: A61K-38/00(R,I,M,JP,20060101,20051220,A,L) A61K-38/00

(R,I,M,JP,20060101,20051220,C,L) A61K-38/04(R,I,M,JP,20060101,20051220,A,L) A61K-38/04

(R,I,M,JP,20060101,20051220,C,L) A61K-38/10(R,I,M,JP,20060101,20051220,C,L) A61K-38/11

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(R,I,M,JP,20060101,20051220,C,L) A61K-38/23(R,I,M,JP,20060101,20051220,A,L) A61K-38/23

(R,I,M,JP,20060101,20051220,C,L) A61K-38/24(R,I,M,JP,20060101,20051220,A,L) A61K-38/24

(R,I,M,JP,20060101,20051220,C,L) A61K-38/26(R,I,M,JP,20060101,20051220,A,L) A61K-38/26

(R,I,M,JP,20060101,20051220,C,L) A61K-38/28(R,I,M,JP,20060101,20051220,A,L) A61K-38/28

(R,I,M,JP,20060101,20051220,C,L) A61K-38/33(R,I,M,JP,20060101,20051220,C,L) A61K-38/35

(R,I,M,JP,20060101,20051220,A,L) A61K-38/43(R,I,M,JP,20060101,20051220,A,L) A61K-38/43

(R,I,M,JP,20060101,20051220,C,L) A61K-38/46(R,I,M,JP,20060101,20051220,A,L) A61K-38/48

(R,I,M,JP,20060101,20051220,A,L) A61K-47/48(R,I,M,EP,20060101,20051008,A) A61K-47/48

(R,I,M,EP,20060101,20051008,C) A61K-9/00(R,N,M,EP,20060101,20051008,A) A61K-9/00
(R,N,M,EP,20060101,20051008,C) A61K-9/107(R,I,M,JP,20060101,20051220,A,F) A61K-9/107
(R,I,M,JP,20060101,20051220,C,F) A61K-9/16(R,I,M,JP,20060101,20051220,A,L) A61K-9/16
(R,I,M,JP,20060101,20051220,C,L) A61K-9/22(R,I,M,GB,20060101,20060521,A) A61K-9/22
(R,I,M,GB,20060101,20060521,C)

Finland

Publication Number: FI 112603 B1 (Update 200404 E)

Publication Date: 20031231

Assignee: ASTRAZENECA AB (ASTR)

Inventor: HUTCHINSON F G

Language: FI

Application: WO 1993GB1079 A 19930525 (PCT Application) FI 19945553 A 19941125 (Local application)

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Related Publication: FI 9405553 A (Previously issued patent)

Original IPC: A61K-47/48(A) A61K-9/16(B) A61K-9/20(B)

Current IPC: A61K-38/00(R,I,M,JP,20060101,20051220,A,L) A61K-38/00

(R,I,M,JP,20060101,20051220,C,L) A61K-38/04(R,I,M,JP,20060101,20051220,A,L) A61K-38/04

(R,I,M,JP,20060101,20051220,C,L) A61K-38/10(R,I,M,JP,20060101,20051220,C,L) A61K-38/11

(R,I,M,JP,20060101,20051220,A,L) A61K-38/17(R,I,M,JP,20060101,20051220,A,L) A61K-38/17

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(R,I,M,JP,20060101,20051220,C,L) A61K-38/24(R,I,M,JP,20060101,20051220,A,L) A61K-38/24

(R,I,M,JP,20060101,20051220,C,L) A61K-38/26(R,I,M,JP,20060101,20051220,A,L) A61K-38/26

(R,I,M,JP,20060101,20051220,C,L) A61K-38/28(R,I,M,JP,20060101,20051220,A,L) A61K-38/28

(R,I,M,JP,20060101,20051220,C,L) A61K-38/33(R,I,M,JP,20060101,20051220,C,L) A61K-38/35

(R,I,M,JP,20060101,20051220,A,L) A61K-38/43(R,I,M,JP,20060101,20051220,A,L) A61K-38/43

(R,I,M,JP,20060101,20051220,C,L) A61K-38/46(R,I,M,JP,20060101,20051220,A,L) A61K-38/48

(R,I,M,JP,20060101,20051220,A,L) A61K-47/48(R,I,M,EP,20060101,20051008,A) A61K-47/48

(R,I,M,EP,20060101,20051008,C) A61K-9/00(R,N,M,EP,20060101,20051008,A) A61K-9/00

(R,N,M,EP,20060101,20051008,C) A61K-9/107(R,I,M,JP,20060101,20051220,A,F) A61K-9/107

(R,I,M,JP,20060101,20051220,C,F) A61K-9/16(R,I,M,JP,20060101,20051220,A,L) A61K-9/16

(R,I,M,JP,20060101,20051220,C,L) A61K-9/22(R,I,M,GB,20060101,20060521,A) A61K-9/22

(R,I,M,GB,20060101,20060521,C)|FI 199405553 A (Update 199516 E)

Publication Date: 19950125

Assignee: ZENECA LTD (ZENE)

Inventor: HUTCHINSON F G

Language: FI

Application: WO 1993GB1079 A 19930525 (PCT Application) FI 19945553 A 19941125 (Local application)

Priority: GB 199211268 A 19920528

Original IPC: A61K(A)

Current IPC: A61K-38/00(R,I,M,JP,20060101,20051220,A,L) A61K-38/00

(R,I,M,JP,20060101,20051220,C,L) A61K-38/04(R,I,M,JP,20060101,20051220,A,L) A61K-38/04

(R,I,M,JP,20060101,20051220,C,L) A61K-38/10(R,I,M,JP,20060101,20051220,C,L) A61K-38/11

(R,I,M,JP,20060101,20051220,A,L) A61K-38/17(R,I,M,JP,20060101,20051220,A,L) A61K-38/17

(R,I,M,JP,20060101,20051220,C,L) A61K-38/21(R,I,M,JP,20060101,20051220,A,L) A61K-38/21

(R,I,M,JP,20060101,20051220,C,L) A61K-38/22(R,I,M,JP,20060101,20051220,A,L) A61K-38/22

(R,I,M,JP,20060101,20051220,C,L) A61K-38/23(R,I,M,JP,20060101,20051220,A,L) A61K-38/23

(R,I,M,JP,20060101,20051220,C,L) A61K-38/24(R,I,M,JP,20060101,20051220,A,L) A61K-38/24
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(R,I,M,JP,20060101,20051220,C,L) A61K-38/28(R,I,M,JP,20060101,20051220,A,L) A61K-38/28
(R,I,M,JP,20060101,20051220,C,L) A61K-38/33(R,I,M,JP,20060101,20051220,C,L) A61K-38/35
(R,I,M,JP,20060101,20051220,A,L) A61K-38/43(R,I,M,JP,20060101,20051220,A,L) A61K-38/43
(R,I,M,JP,20060101,20051220,C,L) A61K-38/46(R,I,M,JP,20060101,20051220,A,L) A61K-38/48
(R,I,M,JP,20060101,20051220,A,L) A61K-47/48(R,I,M,EP,20060101,20051008,A) A61K-47/48
(R,I,M,EP,20060101,20051008,C) A61K-9/00(R,N,M,EP,20060101,20051008,A) A61K-9/00
(R,N,M,EP,20060101,20051008,C) A61K-9/107(R,I,M,JP,20060101,20051220,A,F) A61K-9/107
(R,I,M,JP,20060101,20051220,C,F) A61K-9/16(R,I,M,JP,20060101,20051220,A,L) A61K-9/16
(R,I,M,JP,20060101,20051220,C,L) A61K-9/22(R,I,M,GB,20060101,20060521,A) A61K-9/22
(R,I,M,GB,20060101,20060521,C)

France

Publication Number: FR 2691631 A1 (Update 199401 E)

Publication Date: 19931203

Assignee: ZENECA LTD (ZENE)

Inventor: HUTCHINSON F G

Language: FR (103 pages, 0 drawings)

Application: FR 19936432 A 19930528 (Local application)

Priority: GB 199211268 A 19920528

Original IPC: A61K-47/48(A) A61K-9/22(B) A61K-9/52(B) A61K-31:765(C) A61K-37:02(C) A61K-47/48(C)

Current IPC: A61K-38/00(R,I,M,JP,20060101,20051220,A,L) A61K-38/00

(R,I,M,JP,20060101,20051220,C,L) A61K-38/04(R,I,M,JP,20060101,20051220,A,L) A61K-38/04

(R,I,M,JP,20060101,20051220,C,L) A61K-38/10(R,I,M,JP,20060101,20051220,C,L) A61K-38/11

(R,I,M,JP,20060101,20051220,A,L) A61K-38/17(R,I,M,JP,20060101,20051220,A,L) A61K-38/17

(R,I,M,JP,20060101,20051220,C,L) A61K-38/21(R,I,M,JP,20060101,20051220,A,L) A61K-38/21

(R,I,M,JP,20060101,20051220,C,L) A61K-38/22(R,I,M,JP,20060101,20051220,A,L) A61K-38/22

(R,I,M,JP,20060101,20051220,C,L) A61K-38/23(R,I,M,JP,20060101,20051220,A,L) A61K-38/23

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(R,I,M,JP,20060101,20051220,C,L) A61K-38/26(R,I,M,JP,20060101,20051220,A,L) A61K-38/26

(R,I,M,JP,20060101,20051220,C,L) A61K-38/28(R,I,M,JP,20060101,20051220,A,L) A61K-38/28

(R,I,M,JP,20060101,20051220,C,L) A61K-38/33(R,I,M,JP,20060101,20051220,C,L) A61K-38/35

(R,I,M,JP,20060101,20051220,A,L) A61K-38/43(R,I,M,JP,20060101,20051220,A,L) A61K-38/43

(R,I,M,JP,20060101,20051220,C,L) A61K-38/46(R,I,M,JP,20060101,20051220,A,L) A61K-38/48

(R,I,M,JP,20060101,20051220,A,L) A61K-47/48(R,I,M,EP,20060101,20051008,A) A61K-47/48

(R,I,M,EP,20060101,20051008,C) A61K-9/00(R,N,M,EP,20060101,20051008,A) A61K-9/00

(R,N,M,EP,20060101,20051008,C) A61K-9/107(R,I,M,JP,20060101,20051220,A,F) A61K-9/107

(R,I,M,JP,20060101,20051220,C,F) A61K-9/16(R,I,M,JP,20060101,20051220,A,L) A61K-9/16

(R,I,M,JP,20060101,20051220,C,L) A61K-9/22(R,I,M,GB,20060101,20060521,A) A61K-9/22

(R,I,M,GB,20060101,20060521,C)

Great Britain

Publication Number: GB 2282066 A (Update 199516 E)

Publication Date: 19950329

Language: EN (1 pages, 0 drawings)

Application: WO 1993GB1079 A 19930525 (PCT Application) GB 199423366 A 19941118 (Local application)

Priority: GB 199211268 A 19920528

Related Publication: WO 1993024150 A (Based on OPI patent)

Original IPC: A61K-47/48(A) A61K-9/16(B) A61K-9/20(B)

Current IPC: A61K-38/00(R,I,M,JP,20060101,20051220,A,L) A61K-38/00

(R,I,M,JP,20060101,20051220,C,L) A61K-38/04(R,I,M,JP,20060101,20051220,A,L) A61K-38/04

(R,I,M,JP,20060101,20051220,C,L) A61K-38/10(R,I,M,JP,20060101,20051220,C,L) A61K-38/11

(R,I,M,JP,20060101,20051220,A,L) A61K-38/17(R,I,M,JP,20060101,20051220,A,L) A61K-38/17

(R,I,M,JP,20060101,20051220,C,L) A61K-38/21(R,I,M,JP,20060101,20051220,A,L) A61K-38/21

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(R,I,M,JP,20060101,20051220,C,L) A61K-38/23(R,I,M,JP,20060101,20051220,A,L) A61K-38/23

(R,I,M,JP,20060101,20051220,C,L) A61K-38/24(R,I,M,JP,20060101,20051220,A,L) A61K-38/24

(R,I,M,JP,20060101,20051220,C,L) A61K-38/26(R,I,M,JP,20060101,20051220,A,L) A61K-38/26

(R,I,M,JP,20060101,20051220,C,L) A61K-38/28(R,I,M,JP,20060101,20051220,A,L) A61K-38/28

(R,I,M,JP,20060101,20051220,C,L) A61K-38/33(R,I,M,JP,20060101,20051220,C,L) A61K-38/35

(R,I,M,JP,20060101,20051220,A,L) A61K-38/43(R,I,M,JP,20060101,20051220,A,L) A61K-38/43

(R,I,M,JP,20060101,20051220,C,L) A61K-38/46(R,I,M,JP,20060101,20051220,A,L) A61K-38/48

(R,I,M,JP,20060101,20051220,A,L) A61K-47/48(R,I,M,EP,20060101,20051008,A) A61K-47/48

(R,I,M,EP,20060101,20051008,C) A61K-9/00(R,N,M,EP,20060101,20051008,A) A61K-9/00

(R,N,M,EP,20060101,20051008,C) A61K-9/107(R,I,M,JP,20060101,20051220,A,F) A61K-9/107

(R,I,M,JP,20060101,20051220,C,F) A61K-9/16(R,I,M,JP,20060101,20051220,A,L) A61K-9/16

(R,I,M,JP,20060101,20051220,C,L) A61K-9/22(R,I,M,GB,20060101,20060521,A) A61K-9/22

(R,I,M,GB,20060101,20061008,C)

Claim: Compsn. contains (as made) a salt (A) contg. a cation derived from a peptide (I) having at least one basic gp., and an anion derived from a carboxy-terminated polyester (II). The compsn. is a soln. or dispersion of (A) in a solvent which also dissolves free (II) but not free (I), and in a dispersion the particle size of (A) is below 5 (esp. below 0.2) microns. Alternatively the compsn. exists as microparticles or an implant for injection or subdermal implantation. Pref. (II) is derived from hydroxyacids or is prepd. by polycondensation of diols and/or polyols with dicarboxylic and/or polycarboxylic acids. GB 2282066 B (Update 199648 E)

Publication Date: 19961106

Assignee: ZENECA LTD; GB (ZENE)

Inventor: HUTCHINSON F G

Language: EN

Application: WO 1993GB1079 A 19930525 (PCT Application) GB 199423366 A 19941118 (Local application)

Priority: GB 199211268 A 19920528

Related Publication: WO 1993024150 A (Based on OPI patent)

Original IPC: A61K-47/48(A) A61K-9/16(B) A61K-9/20(B) C07K-7/06(B) C07K-14/535(B)

Current IPC: A61K-38/00(R,I,M,JP,20060101,20051220,A,L) A61K-38/00

(R,I,M,JP,20060101,20051220,C,L) A61K-38/04(R,I,M,JP,20060101,20051220,A,L) A61K-38/04

(R,I,M,JP,20060101,20051220,C,L) A61K-38/10(R,I,M,JP,20060101,20051220,C,L) A61K-38/11

(R,I,M,JP,20060101,20051220,A,L) A61K-38/17(R,I,M,JP,20060101,20051220,A,L) A61K-38/17

(R,I,M,JP,20060101,20051220,C,L) A61K-38/21(R,I,M,JP,20060101,20051220,A,L) A61K-38/21

(R,I,M,JP,20060101,20051220,C,L) A61K-38/22(R,I,M,JP,20060101,20051220,A,L) A61K-38/22

(R,I,M,JP,20060101,20051220,C,L) A61K-38/23(R,I,M,JP,20060101,20051220,A,L) A61K-38/23

(R,I,M,JP,20060101,20051220,C,L) A61K-38/24(R,I,M,JP,20060101,20051220,A,L) A61K-38/24

(R,I,M,JP,20060101,20051220,C,L) A61K-38/26(R,I,M,JP,20060101,20051220,A,L) A61K-38/26

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(R,I,M,JP,20060101,20051220,A,L) A61K-38/43(R,I,M,JP,20060101,20051220,A,L) A61K-38/43

(R,I,M,JP,20060101,20051220,C,L) A61K-38/46(R,I,M,JP,20060101,20051220,A,L) A61K-38/48

(R,I,M,JP,20060101,20051220,A,L) A61K-47/48(R,I,M,EP,20060101,20051008,A) A61K-47/48

(R,I,M,EP,20060101,20051008,C) A61K-9/00(R,N,M,EP,20060101,20051008,A) A61K-9/00

(R,N,M,EP,20060101,20051008,C) A61K-9/107(R,I,M,JP,20060101,20051220,A,F) A61K-9/107
(R,I,M,JP,20060101,20051220,C,F) A61K-9/16(R,I,M,JP,20060101,20051220,A,L) A61K-9/16
(R,I,M,JP,20060101,20051220,C,L) A61K-9/22(R,I,M,GB,20060101,20060521,A) A61K-9/22
(R,I,M,GB,20060101,20060521,C) .

Claim: A pharmaceutical composition comprising a salt formed from a cation derived from a peptide containing at least one basic group and an anion derived from a carboxy-terminated polyester.

Hungary

Publication Number: HU 70177 T (Update 199546 E)

Publication Date: 19950928

Assignee: ZENECA LTD (ZENE)

Inventor: HUTCHINSON F G

Language: HU

Application: WO 1993GB1079 A 19930525 (PCT Application) HU 19943371 A 19930525 (Local application)

Priority: GB 199211268 A 19920528

Related Publication: WO 1993024150 A (Based on OPI patent)

Original IPC: A61K-47/48(A)

Current IPC: A61K-38/00(R,I,M,JP,20060101,20051220,A,L) A61K-38/00

(R,I,M,JP,20060101,20051220,C,L) A61K-38/04(R,I,M,JP,20060101,20051220,A,L) A61K-38/04

(R,I,M,JP,20060101,20051220,C,L) A61K-38/10(R,I,M,JP,20060101,20051220,C,L) A61K-38/11

(R,I,M,JP,20060101,20051220,A,L) A61K-38/17(R,I,M,JP,20060101,20051220,A,L) A61K-38/17

(R,I,M,JP,20060101,20051220,C,L) A61K-38/21(R,I,M,JP,20060101,20051220,A,L) A61K-38/21

(R,I,M,JP,20060101,20051220,C,L) A61K-38/22(R,I,M,JP,20060101,20051220,A,L) A61K-38/22

(R,I,M,JP,20060101,20051220,C,L) A61K-38/23(R,I,M,JP,20060101,20051220,A,L) A61K-38/23

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(R,I,M,JP,20060101,20051220,C,L) A61K-38/28(R,I,M,JP,20060101,20051220,A,L) A61K-38/28

(R,I,M,JP,20060101,20051220,C,L) A61K-38/33(R,I,M,JP,20060101,20051220,C,L) A61K-38/35

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(R,I,M,JP,20060101,20051220,C,L) A61K-38/46(R,I,M,JP,20060101,20051220,A,L) A61K-38/48

(R,I,M,JP,20060101,20051220,A,L) A61K-47/48(R,I,M,EP,20060101,20051008,A) A61K-47/48

(R,I,M,EP,20060101,20051008,C) A61K-9/00(R,N,M,EP,20060101,20051008,A) A61K-9/00

(R,N,M,EP,20060101,20051008,C) A61K-9/107(R,I,M,JP,20060101,20051220,A,F) A61K-9/107

(R,I,M,JP,20060101,20051220,C,F) A61K-9/16(R,I,M,JP,20060101,20051220,A,L) A61K-9/16

(R,I,M,JP,20060101,20051220,C,L) A61K-9/22(R,I,M,GB,20060101,20060521,A) A61K-9/22

(R,I,M,GB,20060101,20060521,C)

Ireland

Publication Number: IE 74715 B (Update 199744 E)

Publication Date: 19970730

Assignee: ZENECA LTD (ZENE)

Inventor: HUTCHINSON F G

Language: EN

Application: IE 1993358 A 19930511 (Local application)

Priority: GB 199211268 A 19920528

Original IPC: A61K-9/10(A) A61K-37/02(B) A61K-37/24(B) C07K-7/20(B)

Current IPC: A61K-38/00(R,I,M,JP,20060101,20051220,A,L) A61K-38/00

(R,I,M,JP,20060101,20051220,C,L) A61K-38/04(R,I,M,JP,20060101,20051220,A,L) A61K-38/04

(R,I,M,JP,20060101,20051220,C,L) A61K-38/10(R,I,M,JP,20060101,20051220,C,L) A61K-38/11

(R,I,M,JP,20060101,20051220,A,L) A61K-38/17(R,I,M,JP,20060101,20051220,A,L) A61K-38/17

(R,I,M,JP,20060101,20051220,C,L) A61K-38/21(R,I,M,JP,20060101,20051220,A,L) A61K-38/21
(R,I,M,JP,20060101,20051220,C,L) A61K-38/22(R,I,M,JP,20060101,20051220,A,L) A61K-38/22
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(R,I,M,JP,20060101,20051220,A,L) A61K-47/48(R,I,M,EP,20060101,20051008,A) A61K-47/48
(R,I,M,EP,20060101,20051008,C) A61K-9/00(R,N,M,EP,20060101,20051008,A) A61K-9/00
(R,N,M,EP,20060101,20051008,C) A61K-9/107(R,I,M,JP,20060101,20051220,A,F) A61K-9/107
(R,I,M,JP,20060101,20051220,C,F) A61K-9/16(R,I,M,JP,20060101,20051220,A,L) A61K-9/16
(R,I,M,JP,20060101,20051220,C,L) A61K-9/22(R,I,M,GB,20060101,20060521,A) A61K-9/22
(R,I,M,GB,20060101,20060521,C)

Israel

Publication Number: IL 105710 A (Update 200129 E)

Publication Date: 20010319

Assignee: ZENECA LTD (ZENE)

Language: EN

Application: IL 105710 A 19930516 (Local application)

Priority: GB 199211268 A 19920528

Original IPC: A61K-47/48(A) A61K-9/16(B) A61K-9/20(B)

Current IPC: A61K-38/00(R,I,M,JP,20060101,20051220,A,L) A61K-38/00

(R,I,M,JP,20060101,20051220,C,L) A61K-38/04(R,I,M,JP,20060101,20051220,A,L) A61K-38/04

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(R,I,M,JP,20060101,20051220,C,L) A61K-38/46(R,I,M,JP,20060101,20051220,A,L) A61K-38/48

(R,I,M,JP,20060101,20051220,A,L) A61K-47/48(R,I,M,EP,20060101,20051008,A) A61K-47/48

(R,I,M,EP,20060101,20051008,C) A61K-9/00(R,N,M,EP,20060101,20051008,A) A61K-9/00

(R,N,M,EP,20060101,20051008,C) A61K-9/107(R,I,M,JP,20060101,20051220,A,F) A61K-9/107

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(R,I,M,JP,20060101,20051220,C,L) A61K-9/22(R,I,M,GB,20060101,20060521,A) A61K-9/22

(R,I,M,GB,20060101,20060521,C)

Italy

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Assignee: ZENECA LTD (ZENE)

Language: IT

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Original IPC: A61K(A)

Current IPC: A61K-38/00(R,I,M,JP,20060101,20051220,A,L) A61K-38/00

(R,I,M,JP,20060101,20051220,C,L) A61K-38/04(R,I,M,JP,20060101,20051220,A,L) A61K-38/04
(R,I,M,JP,20060101,20051220,C,L) A61K-38/10(R,I,M,JP,20060101,20051220,C,L) A61K-38/11
(R,I,M,JP,20060101,20051220,A,L) A61K-38/17(R,I,M,JP,20060101,20051220,A,L) A61K-38/17
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(R,I,M,JP,20060101,20051220,C,L) A61K-38/46(R,I,M,JP,20060101,20051220,A,L) A61K-38/48
(R,I,M,JP,20060101,20051220,A,L) A61K-47/48(R,I,M,EP,20060101,20051008,A) A61K-47/48
(R,I,M,EP,20060101,20051008,C) A61K-9/00(R,N,M,EP,20060101,20051008,A) A61K-9/00
(R,N,M,EP,20060101,20051008,C) A61K-9/107(R,I,M,JP,20060101,20051220,A,F) A61K-9/107
(R,I,M,JP,20060101,20051220,C,F) A61K-9/16(R,I,M,JP,20060101,20051220,A,L) A61K-9/16
(R,I,M,JP,20060101,20051220,C,L) A61K-9/22(R,I,M,GB,20060101,20060521,A) A61K-9/22
(R,I,M,GB,20060101,20060521,C)

Japan

Publication Number: JP 8501064 W (Update 199643 E)

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Assignee: ZENECA LTD (ZENE)

Inventor: HUTCHINSON F G

Language: JA (85 pages, 0 drawings)

Application: WO 1993GB1079 A 19930525 (PCT Application) JP 1994500317 A 19930525 (Local application)

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Related Publication: WO 1993024150 A (Based on OPI patent)

Original IPC: A61K-38/00(A) A61K-9/107(B) A61K-9/16(B) A61K-38/04(B) A61K-38/11(B) A61K-38/17(B) A61K-38/21(B) A61K-38/22(B) A61K-38/23(B) A61K-38/24(B) A61K-38/26(B) A61K-38/28(B) A61K-38/35(B) A61K-38/43(B) A61K-38/46(B) A61K-38/48(B) A61K-47/48(B)

Current IPC: A61K-38/00(A) A61K-38/04(B) A61K-38/11(B) A61K-38/17(B) A61K-38/21(B) A61K-38/22(B) A61K-38/23(B) A61K-38/24(B) A61K-38/26(B) A61K-38/28(B) A61K-38/35(B) A61K-38/43(B) A61K-38/46(B) A61K-38/48(B) A61K-47/48(B) A61K-9/107(B) A61K-9/16(B)

Republic of Korea

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Assignee: ZENECA LTD (ZENE)

Language: KO

Application: WO 1993GB1079 A 19930525 (PCT Application) KR 1994704279 A 19941126 (Local application)

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Related Publication: KR 95701530 A (Previously issued patent) WO 1993024150 A (Based on OPI patent)

Original IPC: A61K-47/48(A) A61K-37/02(B)

Current IPC: A61K-47/48(A) A61K-37/02(B)

Luxembourg

Publication Number: LU 88559 A (Update 199519 E)

Publication Date: 19950405

Assignee: ZENECA LTD (ZENE)

Inventor: HUTCHINSON F

Language: FR

Application: WO 1993GB1079 A 19930525 (PCT Application) LU 88559 A 19941123 (Local application)

Priority: GB 199211268 A 19920528

Related Publication: WO 1993024150 A (Based on OPI patent)

Original IPC: A61K-47/48(A)

Current IPC: A61K-38/00(R,I,M,JP,20060101,20051220,A,L) A61K-38/00

(R,I,M,JP,20060101,20051220,C,L) A61K-38/04(R,I,M,JP,20060101,20051220,A,L) A61K-38/04

(R,I,M,JP,20060101,20051220,C,L) A61K-38/10(R,I,M,JP,20060101,20051220,C,L) A61K-38/11

(R,I,M,JP,20060101,20051220,A,L) A61K-38/17(R,I,M,JP,20060101,20051220,A,L) A61K-38/17

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(R,I,M,JP,20060101,20051220,C,L) A61K-38/33(R,I,M,JP,20060101,20051220,C,L) A61K-38/35

(R,I,M,JP,20060101,20051220,A,L) A61K-38/43(R,I,M,JP,20060101,20051220,A,L) A61K-38/43

(R,I,M,JP,20060101,20051220,C,L) A61K-38/46(R,I,M,JP,20060101,20051220,A,L) A61K-38/48

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(R,I,M,EP,20060101,20051008,C) A61K-9/00(R,N,M,EP,20060101,20051008,A) A61K-9/00

(R,N,M,EP,20060101,20051008,C) A61K-9/107(R,I,M,JP,20060101,20051220,A,F) A61K-9/107

(R,I,M,JP,20060101,20051220,C,F) A61K-9/16(R,I,M,JP,20060101,20051220,A,L) A61K-9/16

(R,I,M,JP,20060101,20051220,C,L) A61K-9/22(R,I,M,GB,20060101,20060521,A) A61K-9/22

(R,I,M,GB,20060101,20060521,C)

Mexico

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Language: ES

Application: MX 19933118 A 19930527 (Local application)

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Current IPC: C07K-1/08(A) C08G-63/06(B)

Netherlands

Publication Number: NL 195056 C (Update 200366 E)

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Language: NL

Application: NL 199320034 A 19930525 (Local application)

Priority: GB 199211268 A 19920528

Original IPC: C07K-1/00(A) A61K-38/00(B) A61K-47/34(B) C07K-7/16(B) C07K-7/23(B) C07K-14/535(B)

Current IPC: A61K-38/00(R,I,M,JP,20060101,20051220,A,L) A61K-38/00

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(R,I,M,JP,20060101,20051220,C,L) A61K-9/22(R,I,M,GB,20060101,20060521,A) A61K-9/22
(R,I,M,GB,20060101,20060521,C)]NL 199320034 A (Update 199518 E)

Publication Date: 19950403

Assignee: ZENECA LTD (ZENE)

Inventor: HUTCHINSON F G

Language: NL

Application: NL 199320034 A 19930525 (Local application) WO 1993GB1079 A 19930525 (PCT Application)

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Original IPC: C07K-1/00(A) A61K-38/00(B) A61K-47/34(B) C07K-7/16(B) C07K-7/23(B) C07K-14/535(B)

Current IPC: A61K-38/00(R,I,M,JP,20060101,20051220,A,L) A61K-38/00

(R,I,M,JP,20060101,20051220,C,L) A61K-38/04(R,I,M,JP,20060101,20051220,A,L) A61K-38/04

(R,I,M,JP,20060101,20051220,C,L) A61K-38/10(R,I,M,JP,20060101,20051220,C,L) A61K-38/11

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(R,I,M,JP,20060101,20051220,C,L) A61K-38/21(R,I,M,JP,20060101,20051220,A,L) A61K-38/21

(R,I,M,JP,20060101,20051220,C,L) A61K-38/22(R,I,M,JP,20060101,20051220,A,L) A61K-38/22

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(R,N,M,EP,20060101,20051008,C) A61K-9/107(R,I,M,JP,20060101,20051220,A,F) A61K-9/107

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(R,I,M,JP,20060101,20051220,C,L) A61K-9/22(R,I,M,GB,20060101,20060521,A) A61K-9/22

(R,I,M,GB,20060101,20060521,C)

Norway

Publication Number: NO 311006 B1 (Update 200161 E)

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Language: NO

Application: WO 1993GB1079 A 19930525 (PCT Application) NO 19944535 A 19941125 (Local

application)

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Related Publication: NO 9404535 A (Previously issued patent)

Original IPC: A61K-47/48(A)

Current IPC: A61K-38/00(R,I,M,JP,20060101,20051220,A,L) A61K-38/00

(R,I,M,JP,20060101,20051220,C,L) A61K-38/04(R,I,M,JP,20060101,20051220,A,L) A61K-38/04

(R,I,M,JP,20060101,20051220,C,L) A61K-38/10(R,I,M,JP,20060101,20051220,C,L) A61K-38/11

(R,I,M,JP,20060101,20051220,A,L) A61K-38/17(R,I,M,JP,20060101,20051220,A,L) A61K-38/17

(R,I,M,JP,20060101,20051220,C,L) A61K-38/21(R,I,M,JP,20060101,20051220,A,L) A61K-38/21

(R,I,M,JP,20060101,20051220,C,L) A61K-38/22(R,I,M,JP,20060101,20051220,A,L) A61K-38/22

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(R,I,M,JP,20060101,20051220,A,L) A61K-38/43(R,I,M,JP,20060101,20051220,A,L) A61K-38/43

(R,I,M,JP,20060101,20051220,C,L) A61K-38/46(R,I,M,JP,20060101,20051220,A,L) A61K-38/48

(R,I,M,JP,20060101,20051220,A,L) A61K-47/48(R,I,M,EP,20060101,20051008,A) A61K-47/48

(R,I,M,EP,20060101,20051008,C) A61K-9/00(R,N,M,EP,20060101,20051008,A) A61K-9/00

(R,N,M,EP,20060101,20051008,C) A61K-9/107(R,I,M,JP,20060101,20051220,A,F) A61K-9/107

(R,I,M,JP,20060101,20051220,C,F) A61K-9/16(R,I,M,JP,20060101,20051220,A,L) A61K-9/16

(R,I,M,JP,20060101,20051220,C,L) A61K-9/22(R,I,M,GB,20060101,20060521,A) A61K-9/22

(R,I,M,GB,20060101,20060521,C)|NO 199404535 A (Update 199513 E)

Publication Date: 19950125

Language: NO

Application: WO 1993GB1079 A 19930525 (PCT Application) NO 19944535 A 19941125 (Local application)

Priority: GB 199211268 A 19920528

Original IPC: A61K-47/48(A) A61K-9/16(B) A61K-9/20(B)

Current IPC: A61K-38/00(R,I,M,JP,20060101,20051220,A,L) A61K-38/00

(R,I,M,JP,20060101,20051220,C,L) A61K-38/04(R,I,M,JP,20060101,20051220,A,L) A61K-38/04

(R,I,M,JP,20060101,20051220,C,L) A61K-38/10(R,I,M,JP,20060101,20051220,C,L) A61K-38/11

(R,I,M,JP,20060101,20051220,A,L) A61K-38/17(R,I,M,JP,20060101,20051220,A,L) A61K-38/17

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(R,I,M,JP,20060101,20051220,C,L) A61K-38/33(R,I,M,JP,20060101,20051220,C,L) A61K-38/35

(R,I,M,JP,20060101,20051220,A,L) A61K-38/43(R,I,M,JP,20060101,20051220,A,L) A61K-38/43

(R,I,M,JP,20060101,20051220,C,L) A61K-38/46(R,I,M,JP,20060101,20051220,A,L) A61K-38/48

(R,I,M,JP,20060101,20051220,A,L) A61K-47/48(R,I,M,EP,20060101,20051008,A) A61K-47/48

(R,I,M,EP,20060101,20051008,C) A61K-9/00(R,N,M,EP,20060101,20051008,A) A61K-9/00

(R,N,M,EP,20060101,20051008,C) A61K-9/107(R,I,M,JP,20060101,20051220,A,F) A61K-9/107

(R,I,M,JP,20060101,20051220,C,F) A61K-9/16(R,I,M,JP,20060101,20051220,A,L) A61K-9/16

(R,I,M,JP,20060101,20051220,C,L) A61K-9/22(R,I,M,GB,20060101,20060521,A) A61K-9/22

(R,I,M,GB,20060101,20060521,C)

New Zealand

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Publication Date: 19961220

Assignee: ZENECA LTD (ZENE)

Inventor: HUTCHINSON F G

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Application: NZ 252268 A 19930525 (Local application) WO 1993GB1079 A 19930525 (PCT Application)

Priority: GB 199211268 A 19920528

Related Publication: WO 1993024150 A (Based on OPI patent)

Original IPC: A61K-47/48(A) A61K-9/16(B) A61K-38/16(B) A61K-38/18(B) A61K-38/22(B)

Current IPC: A61K-47/48(R,I,M,EP,20060101,20051008,A) A61K-47/48

(R,I,M,EP,20060101,20051008,C) A61K-9/00(R,N,M,EP,20060101,20051008,A) A61K-9/00

(R,N,M,EP,20060101,20051008,C)

Russia

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Assignee: ZENECA LTD; GB (ZENE)

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Related Publication: WO 1993024150 A (Based on OPI patent)

Original IPC: A61K-47/48(A) A61K-38/00(B)

Current IPC: A61K-38/00(R,I,M,JP,20060101,20051220,A,L) A61K-38/00

(R,I,M,JP,20060101,20051220,C,L) A61K-38/04(R,I,M,JP,20060101,20051220,A,L) A61K-38/04

(R,I,M,JP,20060101,20051220,C,L) A61K-38/10(R,I,M,JP,20060101,20051220,C,L) A61K-38/11

(R,I,M,JP,20060101,20051220,A,L) A61K-38/17(R,I,M,JP,20060101,20051220,A,L) A61K-38/17

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(R,I,M,JP,20060101,20051220,C,L) A61K-38/22(R,I,M,JP,20060101,20051220,A,L) A61K-38/22

(R,I,M,JP,20060101,20051220,C,L) A61K-38/23(R,I,M,JP,20060101,20051220,A,L) A61K-38/23

(R,I,M,JP,20060101,20051220,C,L) A61K-38/24(R,I,M,JP,20060101,20051220,A,L) A61K-38/24

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(R,I,M,JP,20060101,20051220,C,L) A61K-9/22(R,I,M,GB,20060101,20060521,A) A61K-9/22

(R,I,M,GB,20060101,20060521,C)

Sweden

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Assignee: ZENECA LTD (ZENE)

Inventor: HUTCHINSON F G

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Application: WO 1993GB1079 A 19930525 (PCT Application) SE 19944115 A 19941128 (Local application)

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Original IPC: A61K-9/16(A) A61K-9/20(B) A61K-47/48(B)

Current IPC: A61K-38/00(R,I,M,JP,20060101,20051220,A,L) A61K-38/00

(R,I,M,JP,20060101,20051220,C,L) A61K-38/04(R,I,M,JP,20060101,20051220,A,L) A61K-38/04
(R,I,M,JP,20060101,20051220,C,L) A61K-38/10(R,I,M,JP,20060101,20051220,C,L) A61K-38/11
(R,I,M,JP,20060101,20051220,A,L) A61K-38/17(R,I,M,JP,20060101,20051220,A,L) A61K-38/17
(R,I,M,JP,20060101,20051220,C,L) A61K-38/21(R,I,M,JP,20060101,20051220,A,L) A61K-38/21
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(R,I,M,JP,20060101,20051220,C,L) A61K-38/28(R,I,M,JP,20060101,20051220,A,L) A61K-38/28
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(R,I,M,JP,20060101,20051220,A,L) A61K-38/43(R,I,M,JP,20060101,20051220,A,L) A61K-38/43
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(R,I,M,JP,20060101,20051220,A,L) A61K-47/48(R,I,M,EP,20060101,20051008,A) A61K-47/48
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(R,N,M,EP,20060101,20051008,C) A61K-9/107(R,I,M,JP,20060101,20051220,A,F) A61K-9/107
(R,I,M,JP,20060101,20051220,C,F) A61K-9/16(R,I,M,JP,20060101,20051220,A,L) A61K-9/16
(R,I,M,JP,20060101,20051220,C,L) A61K-9/22(R,I,M,GB,20060101,20060521,A) A61K-9/22
(R,I,M,GB,20060101,20060521,C)|SE 199404115 A (Update 199510 E)

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Application: WO 1993GB1079 A 19930525 (PCT Application) SE 19944115 A 19941128 (Local application)

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Original IPC: A61K-47/48(A) A61K-9/16(B) A61K-9/20(B)

Current IPC: A61K-38/00(R,I,M,JP,20060101,20051220,A,L) A61K-38/00

(R,I,M,JP,20060101,20051220,C,L) A61K-38/04(R,I,M,JP,20060101,20051220,A,L) A61K-38/04
(R,I,M,JP,20060101,20051220,C,L) A61K-38/10(R,I,M,JP,20060101,20051220,C,L) A61K-38/11
(R,I,M,JP,20060101,20051220,A,L) A61K-38/17(R,I,M,JP,20060101,20051220,A,L) A61K-38/17
(R,I,M,JP,20060101,20051220,C,L) A61K-38/21(R,I,M,JP,20060101,20051220,A,L) A61K-38/21
(R,I,M,JP,20060101,20051220,C,L) A61K-38/22(R,I,M,JP,20060101,20051220,A,L) A61K-38/22
(R,I,M,JP,20060101,20051220,C,L) A61K-38/23(R,I,M,JP,20060101,20051220,A,L) A61K-38/23
(R,I,M,JP,20060101,20051220,C,L) A61K-38/24(R,I,M,JP,20060101,20051220,A,L) A61K-38/24
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(R,I,M,JP,20060101,20051220,C,L) A61K-38/28(R,I,M,JP,20060101,20051220,A,L) A61K-38/28
(R,I,M,JP,20060101,20051220,C,L) A61K-38/33(R,I,M,JP,20060101,20051220,C,L) A61K-38/35
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(R,I,M,JP,20060101,20051220,C,L) A61K-9/22(R,I,M,GB,20060101,20060521,A) A61K-9/22
(R,I,M,GB,20060101,20060521,C)

Singapore

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Original IPC: A61K-47/48(A) A61K-9/16(B) A61K-9/20(B)

Current IPC: A61K-38/00(R,I,M,JP,20060101,20051220,A,L) A61K-38/00

(R,I,M,JP,20060101,20051220,C,L) A61K-38/04(R,I,M,JP,20060101,20051220,A,L) A61K-38/04
(R,I,M,JP,20060101,20051220,C,L) A61K-38/10(R,I,M,JP,20060101,20051220,C,L) A61K-38/11
(R,I,M,JP,20060101,20051220,A,L) A61K-38/17(R,I,M,JP,20060101,20051220,A,L) A61K-38/17
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(R,I,M,JP,20060101,20051220,C,L) A61K-38/22(R,I,M,JP,20060101,20051220,A,L) A61K-38/22
(R,I,M,JP,20060101,20051220,C,L) A61K-38/23(R,I,M,JP,20060101,20051220,A,L) A61K-38/23
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(R,I,M,JP,20060101,20051220,C,L) A61K-38/28(R,I,M,JP,20060101,20051220,A,L) A61K-38/28
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(R,I,M,JP,20060101,20051220,A,L) A61K-47/48(R,I,M,EP,20060101,20051008,A) A61K-47/48
(R,I,M,EP,20060101,20051008,C) A61K-9/00(R,N,M,EP,20060101,20051008,A) A61K-9/00
(R,N,M,EP,20060101,20051008,C) A61K-9/107(R,I,M,JP,20060101,20051220,A,F) A61K-9/107
(R,I,M,JP,20060101,20051220,C,F) A61K-9/16(R,I,M,JP,20060101,20051220,A,L) A61K-9/16
(R,I,M,JP,20060101,20051220,C,L) A61K-9/22(R,I,M,GB,20060101,20060521,A) A61K-9/22
(R,I,M,GB,20060101,20060521,C)

Slovakia

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Language: SK

Application: WO 1993GB1079 A 19930525 (PCT Application) SK 19941434 A 19930525 (Local application)

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Related Publication: SK 9401434 A (Previously issued patent)

Original IPC: A61K-47/48(A) A61K-9/16(B) A61K-9/20(B)

Current IPC: A61K-38/00(R,I,M,JP,20060101,20051220,A,L) A61K-38/00

(R,I,M,JP,20060101,20051220,C,L) A61K-38/04(R,I,M,JP,20060101,20051220,A,L) A61K-38/04
(R,I,M,JP,20060101,20051220,C,L) A61K-38/10(R,I,M,JP,20060101,20051220,C,L) A61K-38/11
(R,I,M,JP,20060101,20051220,A,L) A61K-38/17(R,I,M,JP,20060101,20051220,A,L) A61K-38/17
(R,I,M,JP,20060101,20051220,C,L) A61K-38/21(R,I,M,JP,20060101,20051220,A,L) A61K-38/21
(R,I,M,JP,20060101,20051220,C,L) A61K-38/22(R,I,M,JP,20060101,20051220,A,L) A61K-38/22
(R,I,M,JP,20060101,20051220,C,L) A61K-38/23(R,I,M,JP,20060101,20051220,A,L) A61K-38/23
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(R,I,M,JP,20060101,20051220,C,L) A61K-38/26(R,I,M,JP,20060101,20051220,A,L) A61K-38/26
(R,I,M,JP,20060101,20051220,C,L) A61K-38/28(R,I,M,JP,20060101,20051220,A,L) A61K-38/28
(R,I,M,JP,20060101,20051220,C,L) A61K-38/33(R,I,M,JP,20060101,20051220,C,L) A61K-38/35
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(R,I,M,JP,20060101,20051220,A,L) A61K-47/48(R,I,M,EP,20051220,20051008,A) A61K-47/48
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(R,I,M,JP,20060101,20060101,C,L) A61K-9/22(R,I,M,GB,20060101,20060521,A) A61K-9/22
(R,I,M,GB,20060101,20060521,C)|SK 199401434 A3 (Update 199537 E)

Publication Date: 19950711

Language: SK

Application: WO 1993GB1079 A 19930525 (PCT Application) SK 19941434 A 19930525 (Local application)

Priority: GB 199211268 A 19920528

Original IPC: A61K-47/48(A) A61K-9/16(B) A61K-9/20(B)

Current IPC: A61K-38/00(R,I,M,JP,20060101,20051220,A,L) A61K-38/00

(R,I,M,JP,20060101,20051220,C,L) A61K-38/04(R,I,M,JP,20060101,20051220,A,L) A61K-38/04

(R,I,M,JP,20060101,20051220,C,L) A61K-38/10(R,I,M,JP,20060101,20051220,C,L) A61K-38/11

(R,I,M,JP,20060101,20051220,A,L) A61K-38/17(R,I,M,JP,20060101,20051220,A,L) A61K-38/17

(R,I,M,JP,20060101,20051220,C,L) A61K-38/21(R,I,M,JP,20060101,20051220,A,L) A61K-38/21

(R,I,M,JP,20060101,20051220,C,L) A61K-38/22(R,I,M,JP,20060101,20051220,A,L) A61K-38/22

(R,I,M,JP,20060101,20051220,C,L) A61K-38/23(R,I,M,JP,20060101,20051220,A,L) A61K-38/23

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(R,I,M,JP,20060101,20051220,C,L) A61K-38/28(R,I,M,JP,20060101,20051220,A,L) A61K-38/28

(R,I,M,JP,20060101,20051220,C,L) A61K-38/33(R,I,M,JP,20060101,20051220,C,L) A61K-38/35

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(R,I,M,GB,20060101,20060521,C)

Taiwan

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Publication Date: 19940501

Assignee: ZENECA LTD; GB (ZENE)

Language: ZH

Application: TW 1993104017 A 19930521 (Local application)

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Current IPC: A61K-37/02(A) A61K-37/24(B)

United States

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Publication Date: 20021226

****Salts of peptides with carboxy-terminated polyesters****

Assignee: Hutchinson, Francis Gowland, Cheshire, GB (HUTC-I)

Inventor: Hutchinson, Francis Gowland, Cheshire, GB

Agent: PILLSBURY WINTHROP, LLP, P.O. BOX 10500, MCLEAN, VA, US

Language: EN

Application: US 199365771 A 19930524 (Division of application) US 1995473303 A 19950607

(Continuation of application) US 1998161707 A 19980929 (Continuation of application) US

2001988068 A 20011116 (Local application)

Priority: GB 199211268 A 19920528

Related Publication: US 5889110 A (Continuation of patent)

Original IPC: C08J-3/00(A)

Current IPC: A61K-47/48(R,I,M,EP,20060101,20051008,A) A61K-47/48

(R,I,M,EP,20060101,20051008,C) A61K-9/00(R,N,M,EP,20060101,20051008,A) A61K-9/00
(R,N,M,EP,20060101,20051008,C)

Original US Class (secondary): 524832

Original Abstract: This invention relates to novel salts composed of a cation derived from a peptide containing at least one basic group and an anion derived from a carboxy-terminated polyester, processes for the manufacture of such salts, and the use of such salts in the manufacture of extended release pharmaceutical compositions. The salts of the invention possess a variety of properties which are useful in the formulation of extended release pharmaceutical compositions, whether the salts are in pure form or are in admixture with either an excess of the peptide in its free, unbound form or an excess of the free polyester.

Claim: 1. 2. ****1****. A composition containing or comprising, as initially made, a salt formed from a cation derived from a peptide containing at least one basic group and an anion derived from a carboxy-terminated polyester; the composition being in the form of a solution or dispersion of the salt in a solvent which is a solvent for the free polyester but not a solvent for the free peptide, the particle size of the salt in said dispersion being less than 5 μm and preferably less than 0.2 μm ; or in the form of microparticles or an implant, for injection or sub-dermal implantation. [US 5889110 A (Update 199920 E)]

Publication Date: 19990330

****Salts of peptides with carboxy-terminated polyesters.****

Assignee: Zeneca Limited, London, GB (ZENE)

Inventor: Hutchinson, Francis Gowland, Lymm, GB

Agent: Cushman Darby Cushman, Intellectual Property Group of Pillsbury Madison Sutro, LLP

Language: EN

Application: US 199365771 A 19930 524 (Division of application) US 1995473303 A 19950607 (Local application)

Priority: GB 199211268 A 19920528

Original IPC: A61K-9/16(A) A61K-9/52(B) A61K-37/02(B) B32B-5/16(B)

Current IPC: A61K-47/48(R,I,M,EP,2006 0101,20051008,A) A61K-47/48

(R,I,M,EP,20060101,20051008,C) A61K-9/00(R,N,M,EP,20060101,20051008,A) A61K-9/00

(R,N,M,EP,20060101,20051008,C) A61K-9/52(R,I,M,US,20060101,20060521,A) A61K-9/52

(R,I,M,US,20060101,20060521,C)

Original US Class (secondary): 5142 514772.3 514772.6 514800 51480 6 514807 514808 514809 514963 424489 424492 424499 435180 435181 435182 428402.24 52554.1

Original Abstract: This invention relates to novel salts composed of a cation derived from a peptide containing at least one basic group and an anion derived from a carboxy-terminated polyester, processes for the manufacture of such salts, and the use of such salts in the manufacture of extended release pharmaceutical compositions. The salts of the invention possess a variety of properties which are useful in the formulation of extended release pharmaceutical compositions, whether the salts are in pure form or are in admixture with either an excess of the peptide in its free, unbound form or an excess of the free polyester.

Claim: 1. A composition suitable for injection, comprising a salt formed from a cation derived from a peptide containing one or more basic groups and an anion derived from a carboxy-terminated polyester, wherein said salt is dissolved in a pharmaceutically acceptable organic solvent which is a solvent for the free polyester but not a solvent for the free peptide, and wherein the peptide present in said composition is essentially completely in the form of said peptide/polyester salt. [US 6034175 A (Update 200019 NCE)]

Publication Date: 20000307

****Salts of peptides with carboxy-terminated polyesters.****

Assignee: Zeneca Limited, London, GB (ZENE)

Inventor: Hutchinson, Francis Gowland, Lymm, GB

Agent: Pillsbury Madison Sutro, LLP In

Language: EN

Application: US 199365771 A 19930524 (Division of application) US 1995473303 A 19950607 (Continuation of application) US 1999235270 A 19990122 (Local application)

Priority: US 19992 35270 A 19990122 (Local application)

Related Publication: US 5889110 A (Continuation of patent)

Original IPC: A61K-9/16(A) A61K-9/52(B) A61K-37/02(B) B32B-5/16(B)

Current IPC: A61K-47/48(R,I,M,EP,20060101,20051008,A) A61K-47/48

(R,I,M,EP,20060101,20051008,C) A61K-9/00(R,N,M,EP,20060101,20051008,A) A61K-9/00

(R,N,M,EP,20060101,20051008,C)

Original US Class (secondary): 5142 514772.3 514772.6 514800 514806 514807 514808 514809 514963 424489 424492 424499 435180 435181 435182 428402.34 52554.1

Original Abstract: This invention relates to novel salts composed of a cation derived from a peptide containing at least one basic group and an anion derived from a carboxy-terminated polyester, processes for the manufacture of such salts, and the use of such salts in the manufacture of extended release pharmaceutical compositions. The salts of the invention possess a variety of properties which are useful in the formulation of extended release pharmaceutical compositions, whether the salts are in pure form or are in admixture with either an excess of the peptide in its free, unbound form or an excess of the free polyester.

Claim: 1. A composition containing, as initially made, a salt formed from a cation derived from a peptide containing one or more basic groups and an anion derived from a carboxy-terminated polyester, said composition being in a form suitable for injection or sub-dermal implantation selected from the group consisting of: * a solution of the salt in a solvent which is a solvent for the free polyester but not a solvent for the free peptide; * a dispersion of the salt in a solvent which is a solvent for the free polyester but not a solvent for the free peptide, the particle size of the salt in said dispersion being less than 5 µm; * microparticles; and * an implant for injection or sub-dermal implantation.

WIPO

Publication Number: WO 1993024150 A1 (Update 199350 B)

Publication Date: 19931209

****SALTS OF PEPTIDES WITH CARBOXY-TERMINATED POLYESTERS****

Assignee: ZENECA LIMITED, GB (ZENE)

Inventor: HUTCHINSON, FRANCIS, GOWLAND, GB

Language: EN (85 pages, 0 drawings)

Application: WO 1993GB1079 A 19930525 (Local application)

Priority: GB 199211268 A 19920528

Designated States: (National Original) AT AU BB BG BR CA CH CZ DE DK ES FI GB HU JP KP KR LK LU MG MN MW NL NO NZ PL PT RO RU SD SE SK UA (Regional Original) OA

Original IPC: A61K-47/48(A) A61K-9/16(B) A61K-9/20(B)

Current IPC: A61K-38/00(R,I,M,JP,20060101,20051220,A,L) A61K-38/00

(R,I,M,JP,20060101,20051220,C,L) A61K-38/04(R,I,M,JP,20060101,20051220,A,L) A61K-38/04

(R,I,M,JP,20060101,20051220,C,L) A61K-38/10(R,I,M,JP,20060101,20051220,C,L) A61K-38/11

(R,I,M,JP,20060101,20051220,A,L) A61K-38/17(R,I,M,JP,20060101,20051220,A,L) A61K-38/17

(R,I,M,JP,20060101,20051220,C,L) A61K-38/21(R,I,M,JP,20060101,20051220,A,L) A61K-38/21

(R,I,M,JP,20060101,20051220,C,L) A61K-38/22(R,I,M,JP,20060101,20051220,A,L) A61K-38/22

(R,I,M,JP,20060101,20051220,C,L) A61K-38/23(R,I,M,JP,20060101,20051220,A,L) A61K-38/23

(R,I,M,JP,20060101,20051220,C,L) A61K-38/24(R,I,M,JP,20060101,20051220,A,L) A61K-38/24

(R,I,M,JP,20060101,20051220,C,L) A61K-38/26(R,I,M,JP,20060101,20051220,A,L) A61K-38/26

(R,I,M,JP,20060101,20051220,C,L) A61K-38/28(R,I,M,JP,20060101,20051220,A,L) A61K-38/28

(R,I,M,JP,20060101,20051220,C,L) A61K-38/33(R,I,M,JP,20060101,20051220,C,L) A61K-38/35

(R,I,M,JP,20060101,20051220,A,L) A61K-38/43(R,I,M,JP,20060101,20051220,A,L) A61K-38/43

(R,I,M,JP,20060101,20051220,C,L) A61K-38/46(R,I,M,JP,20060101,20051220,A,L) A61K-38/48

(R,I,M,JP,20060101,20051220,A,L) A61K-47/48(R,I,M,EP,20060101,20051008,A) A61K-47/48
(R,I,M,EP,20060101,20051008,C) A61K-9/00(R,N,M,EP,20060101,20051008,A) A61K-9/00
(R,N,M,EP,20060101,20051008,C) A61K-9/107(R,I,M,JP,20060101,20051220,A,F) A61K-9/107
(R,I,M,JP,20060101,20051220,C,F) A61K-9/16(R,I,M,JP,20060101,20051220,A,L) A61K-9/16
(R,I,M,JP,20060101,20051220,C,L) A61K-9/22(R,I,M,GB,20060101,20060521,A) A61K-9/22
(R,I,M,GB,20061008,20060521,C)

Original Abstract: This invention relates to novel salts composed of a cation derived from a peptide containing at least one basic group and an anion derived from a carboxy-terminated polyester, processes for the manufacture of such salts, and the use of such salts in the manufacture of extended release pharmaceutical compositions. The salts of the invention possess a variety of properties which are useful in the formulation of extended release pharmaceutical compositions, whether the salts are in pure form or are in admixture with either an excess of the peptide in its free, unbound form or an excess of the free polyester.

South Africa

Publication Number: ZA 199303358 A (Update 199502 E)

Publication Date: 19941130

Assignee: ZENECA LTD (ZENE)

Inventor: HUTCHINSON F G

Language: EN (83 pages, 0 drawings)

Application: ZA 19933358 A 19930513 (Local application)

Priority: GB 199211268 A 19920528

Original IPC: A61K(A)

Current IPC: A61K-38/00(R,I,M,JP,20060101,20051220,A,L) A61K-38/00

(R,I,M,JP,20060101,20051220,C,L) A61K-38/04(R,I,M,JP,20060101,20051220,A,L) A61K-38/04

(R,I,M,JP,20060101,20051220,C,L) A61K-38/10(R,I,M,JP,20060101,20051220,C,L) A61K-38/11

(R,I,M,JP,20060101,20051220,A,L) A61K-38/17(R,I,M,JP,20060101,20051220,A,L) A61K-38/17

(R,I,M,JP,20060101,20051220,C,L) A61K-38/21(R,I,M,JP,20060101,20051220,A,L) A61K-38/21

(R,I,M,JP,20060101,20051220,C,L) A61K-38/22(R,I,M,JP,20060101,20051220,A,L) A61K-38/22

(R,I,M,JP,20060101,20051220,C,L) A61K-38/23(R,I,M,JP,20060101,20051220,A,L) A61K-38/23

(R,I,M,JP,20060101,20051220,C,L) A61K-38/24(R,I,M,JP,20060101,20051220,A,L) A61K-38/24

(R,I,M,JP,20060101,20051220,C,L) A61K-38/26(R,I,M,JP,20060101,20051220,A,L) A61K-38/26

(R,I,M,JP,20060101,20051220,C,L) A61K-38/28(R,I,M,JP,20060101,20051220,A,L) A61K-38/28

(R,I,M,JP,20060101,20051220,C,L) A61K-38/33(R,I,M,JP,20060101,20051220,C,L) A61K-38/35

(R,I,M,JP,20060101,20051220,A,L) A61K-38/43(R,I,M,JP,20060101,20051220,A,L) A61K-38/43

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(R,I,M,EP,20060101,20051008,C) A61K-9/00(R,N,M,EP,20060101,20051008,A) A61K-9/00

(R,N,M,EP,20060101,20051008,C) A61K-9/107(R,I,M,JP,20060101,20051220,A,F) A61K-9/107

(R,I,M,JP,20060101,20051220,C,F) A61K-9/16(R,I,M,JP,20060101,20051220,A,L) A61K-9/16

(R,I,M,JP,20060101,20051220,C,L) A61K-9/22(R,I,M,GB,20060101,20060521,A) A61K-9/22

(R,I,M,GB,20060101,20060521,C)

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